

## ETHYLENE TRIMERIZATION CATALYST AND METHOD FOR TRIMERIZING ETHYLENE THEREWITH

**Patent number:** JP10036432  
**Publication date:** 1998-02-10  
**Inventor:** OGURI MOTOHIRO; OKADA HISANORI; KOIE YASUYUKI  
**Applicant:** TOSOH CORP  
**Classification:**  
- **international:** C08F4/69; C08F10/00  
- **european:**  
**Application number:** JP19960196402 19960725  
**Priority number(s):**

### Abstract of JP10036432

**PROBLEM TO BE SOLVED:** To obtain an ethylene trimerization catalyst which can give 1-hexene useful as a comonomer for a linear low-density polyethylene at good efficiency by combining a specified chromium-containing solid substance with a specified imide compound and a specified alkylmetal compound.

**SOLUTION:** This catalyst comprises a chromium-containing solid substance (A) which is obtained by impregnating an inorganic oxide with a chromium compound and calcining the product and in which the chromium compound is in the form of an oxide, an imide compound (B) and an alkyl-metal compound (C). In the formula, d is 1-4; M is H or an (un)substituted metallic element of group IA, IIA, IB, IIB, IIIB or IVB in the periodic table; R<1> and R<2> are each H, a 1-10C alkyl, a halogen or an aryl or they may be combined with each other through a C-C bond to form a cyclic substituent.

---

Data supplied from the **esp@cenet** database - Patent Abstracts of Japan